

BDH2 Antibody (aa60-71)
Goat Polyclonal Antibody
Catalog # ALS16079**Specification**

BDH2 Antibody (aa60-71) - Product Information

Application	WB, IHC-P, E
Primary Accession	O9BUT1
Reactivity	Human, Monkey
Host	Goat
Clonality	Polyclonal
Calculated MW	27kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

BDH2 Antibody (aa60-71) - Additional Information**Gene ID** 56898**Other Names**

3-hydroxybutyrate dehydrogenase type 2, 1.1.1.-, 1.1.1.30, Dehydrogenase/reductase SDR family member 6, Oxidoreductase UCPA, R-beta-hydroxybutyrate dehydrogenase, Short chain dehydrogenase/reductase family 15C member 1, BDH2, DHRS6, SDR15C1

Target/Specificity

Human BDH2.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

BDH2 Antibody (aa60-71) is for research use only and not for use in diagnostic or therapeutic procedures.

BDH2 Antibody (aa60-71) - Protein Information**Name** BDH2 {ECO:0000303|PubMed:35150746, ECO:0000312|HGNC:HGNC:32389}**Function**

NAD(H)-dependent dehydrogenase/reductase with a preference for cyclic substrates (By similarity) (PubMed:35150746). Catalyzes stereoselective conversion of 4-oxo-L-proline to cis-4-hydroxy-L-proline, likely a detoxification mechanism for ketoprolines (PubMed:35150746). Mediates the formation of 2,5-dihydroxybenzoate (2,5-DHBA), a siderophore that chelates free cytoplasmic iron and associates with LCN2, thereby regulating iron transport and homeostasis while protecting cells against free radical-induced oxidative stress. The iron-siderophore complex is imported into

mitochondria, providing an iron source for mitochondrial metabolic processes in particular heme synthesis (By similarity). May act as a 3-hydroxybutyrate dehydrogenase (PubMed:16380372).

Cellular Location

Cytoplasm.

Tissue Location

Detected in liver (at protein level).

BDH2 Antibody (aa60-71) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BDH2 Antibody (aa60-71) - Images

Antibody (0.3 ug/ml) staining of Human Kidney lysate (35 ug protein in RIPA buffer).

BDH2 Antibody (aa60-71) - Background

Dehydrogenase that mediates the formation of 2,5- dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin and associates with LCN2, thereby playing a key role in iron homeostasis and transport. Also acts as a 3-hydroxybutyrate dehydrogenase (By similarity).

BDH2 Antibody (aa60-71) - References

Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).

